Attorney Docket No.: Q97358

## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

## **LISTING OF CLAIMS:**

1. (currently amended): A catalyst for hydrotreating a hydrocarbon oil, which comprises an inorganic oxide support, wherein a phosphorous oxide is contained within the inorganic oxide support in an amount of 15% by weight or less containing a phosphorus oxide in an amount of 15% by weight or less on the basis of the support and having provided thereon:

at least one selected from metals in [[the]] Group 6 of the periodic table in an amount of from 10 to 40% by weight,

at least one selected from metals in [[the]] Group 8 of the periodic table in an amount of from 1 to 15% by weight, and

carbon in an amount of from 2 to 14% by weight,

in terms of respective oxides on the basis of the catalyst,

wherein the catalyst has a specific surface area of from 100 to  $400 \text{ m}^2/\text{g}$ , a pore volume of from 0.2 to 0.6 ml/g, and a mean pore diameter of from 50 to 200Å.

2. (currently amended): The catalyst for hydrotreating a hydrocarbon oil according to claim 1, wherein a ratio by weight between the metal in [[the]] Group 8 of the periodic table and the metal in [[the]] Group 6 of the periodic table as a value of [metal in the Group 8]/[(metal in the Group 8) + (metal in the Group 6)] is from 0.1 to 0.25 in terms of respective oxides.

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3. (canceled).

(currently amended): A process for producing the catalyst for hydrotreating a 4.

hydrocarbon oil according to any one of claims 1, 2, and 8, which comprises supporting a metal

in [[the]] Group 6 of the periodic table so as to be at from 10 to 40% by weight, a metal in [[the]]

Group 8 of the periodic table so as to be at from 1 to 15% by weight in terms of respective

oxides, and carbon so as to be at from 2 to 14% by weight on the basis of the catalyst, using a

solution containing a compound containing at least one selected from metals in [[the]] Group 8

of the periodic table, a compound containing at least one selected from metals in [[the]] Group 6

of the periodic table, and an organic acid, on an inorganic oxide support containing a phosphorus

oxide at 15% by weight or less on the basis of the support which has a specific surface area of

from 230 to 500 m<sup>2</sup>/g, a pore volume of from 0.5 to 1 ml/g, and an mean pore diameter of from

40 to 180Å, followed by drying at 200°C or lower.

(previously presented): The process for producing the catalyst for hydrotreating a 5.

hydrocarbon oil according to claim 4, wherein the inorganic oxide support containing a

phosphorus oxide is prepared by a kneading method of kneading a starting material of the

inorganic oxide support and a starting material of the phosphorus oxide.

(currently amended): The process for producing the catalyst for hydrotreating a 6.

hydrocarbon oil according to claim 4 claim 4, wherein the inorganic oxide support containing a

phosphorus oxide is prepared by calcining at from 400°C to 700°C for from 0.5 to 10 hours.

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7. (previously presented): A method for hydrotreating a hydrocarbon oil, wherein a

catalytic reaction is carried out at a hydrogen partial pressure of from 0.7 to 8 MPa, a

temperature of from 220 to 420°C, a liquid hourly space velocity of from 0.3 to 10 hr<sup>-1</sup> in the

presence of the catalyst for hydrotreating a hydrocarbon oil according to any one of claims 1, 2

and 8.

8. (currently amended): The catalyst for hydrotreating a hydrocarbon oil according

to claim 1, wherein the element in [[the]] Group 6 of the periodic table is molybdenum,

the carbon is derived from an organic acid,

the inorganic oxide support contains a phosphorus oxide in an amount of 0.1 to 13% by

weight on the basis of the support,

the inorganic oxide support has further provided thereon a phosphorus oxide in which the

total amount of the phosphorus oxide is 15% by weight or less and,

the ratio by weight [P<sub>2</sub>O<sub>5</sub>/MoO<sub>3</sub>] of the total weight of the phosphorus oxide to

molybdenum oxide is 0.05 to 1.0.

9. (previously presented): The catalyst for hydrotreating a hydrocarbon oil

according to claim 8, wherein the inorganic oxide support contains a phosphorus oxide in an

amount of 1 to 13% by weight on the basis of the support.

10. (previously presented): The catalyst for hydrotreating a hydrocarbon oil

according to claim 9, wherein the inorganic oxide support contains a phosphorus oxide in an

amount of 1 to 10% by weight on the basis of the support.

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11. (currently amended): The catalyst for hydrotreating a hydrocarbon oil according

to claim 8, wherein a ratio by weight between the metal in [[the]] Group 8 of the periodic table

and molybdenum as a value of [metal in the Group 8]/[(metal in the Group 8) + (molybdenum)]

is from 0.1 to 0.25 in terms of respective oxides.

12. (currently amended): The process for producing the catalyst for hydrotreating a

hydrocarbon oil according to claim 4, wherein the element in [[the]] Group 6 of the period table

is molybdenum,

the carbon is derived from an organic acid,

the inorganic oxide support contains a phosphorus oxide in an amount of 0.1 to 13% by

weight on the basis of the support,

the inorganic oxide support has further provided thereon a phosphorus oxide in which the

total amount of the phosphorus oxide is 15% by weight or less and,

the ratio by weight [P<sub>2</sub>O<sub>5</sub>/MoO<sub>3</sub>] of the total weight of the phosphorus oxide to

molybdenum oxide is 0.05 to 1.0.

13. (previously presented): The process for producing the catalyst for hydrotreating a

hydrocarbon oil according to claim 12, wherein the inorganic oxide support contains a

phosphorus oxide in an amount of 1 to 13% by weight on the basis of the support.

14. (previously presented): The process for producing the catalyst for hydrotreating a

hydrocarbon oil according to claim 13, wherein the inorganic oxide support contains a

phosphorus oxide in an amount of 1 to 10% by weight on the basis of the support.

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15. (previously presented): The process for producing the catalyst for hydrotreating a hydrocarbon oil according to claim 12, wherein the inorganic oxide support containing a

phosphorus oxide is prepared by a kneading method of kneading a starting material of the

inorganic oxide support and a starting material of the phosphorus oxide.

16. (previously presented): The process for producing the catalyst for hydrotreating a

hydrocarbon oil according to claim 12, wherein the inorganic oxide support containing a

phosphorus oxide is prepared by calcining at from 400°C to 700°C for from 0.5 to 10 hours.